

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/021,000	TAKESHITA, NOBUO	
	<b>Examiner</b>	<b>Art Unit</b>	
	Kim-Kwok CHU	2627	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Supplemental Amendment filed on 10/18/2007.
2. ☒ The allowed claim(s) is/are 1, 6-8, 2-5 and 9-11 which are renumbered as 1-11 respectively.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                     |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|  | 9. <input type="checkbox"/> Other _____   |

***EXAMINER'S AMENDMENT***

1. An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R. 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the Issue Fee.

2. The Amendment filed on October 18, 2007 has been amended as follows:

(a) in Claim 1, line 7, the amended term "bottom opening" has been changed to --bottom opening, through a center opening,--;

(b) in Claim 1, line 9, the amended term "diameter of the center distance" has been changed to --diameter of the center opening which is a distance--;

(c) in Claim 9, line 7, the amended term "bottom opening" has been changed to --bottom opening, through a center opening,--; and

(d) in Claim 9, line 9, the amended term "diameter at the center distance" has been changed to --diameter at the center opening which is a distance--.

3. Authorization for this examiner's amendment was given in a telephone interview with Mr. Chad J. Billings on October 23, 2007.

**REASONS FOR ALLOWANCE**

4. Claims 1-11 are allowable over prior art.

5. The following is an Examiner's statement of reasons for the indication of allowable subject matter based on the Supplemental Amendment filed on October 18, 2007:

As in claims 1 and 9, the prior art of record fails to teach or fairly suggests an optical head having a bearing hole which is formed such that a shape from the bearing hole's bottom opening, through a center opening, to the bearing hole's top opening is a parabolic shape such that a diameter of the bearing hole's top opening and bottom opening are larger than the diameter of the center opening which is a distance between the bearing hole's top opening and bottom opening.

As in claim 2, the prior art of record fails to teach or fairly suggest an optical head has a bearing hole which has a hole diameter that gradually increases while approaching the bearing hole's openings from the bearing hole's center, and the bearing hole has a wall that is generally circularly arcuate in cross-sectional shape.

As in claim 5, the prior art of record fails to teach or fairly suggest an optical head having the following features:

(a) the inclination drive unit includes electromagnetic drive means comprising a first element mounted on the lens holder on a second axis perpendicular to both the support shaft and the first axis perpendicular to the support shaft, and a second element located opposite the first element; and

(b) the inclination drive unit includes electromagnetic drive means comprising a magnetic material fixedly mounted on the lens holder in close vicinity to the second element of the electromagnetic drive means.

The features indicated above, in combination with the other elements of the claims, are not anticipated by, nor made obvious over, the prior art of record.


6. Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably **accompany** the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

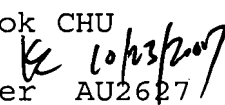
7. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Kim CHU whose telephone number is (571) 272-7585 between 9:30 am to 6:00 pm, Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Nguyen, can be reached on (571) 272-7579.

The fax number for the organization where this application or proceeding is assigned is (571) 273-8300

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished application is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9191 (toll free).

  
HOA T. NGUYEN  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600  
10/29/07

Kim-Kwok CHU  
  
Examiner AU2627/  
October 23, 2007

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